3GPP TSG SA4#112-e Tdoc S4-210274

E-meeting, 1st-10th February, 2021

**Title: [Draft] Reply LS on on 8K VR 360 operation points**

**Response to: -**

**Release: Rel-17**

**Work Item: 8K\_VR\_5G**

**Source: 3GPP TSG SA WG4 (SA4)**

**To: VR-IF**

**Cc: -**

**Contact person: Dr. Thomas Stockhammer**

 **tsto@qti.qualcomm.com**

 **+49 172 5702667**

**Send any reply LS to: 3GPP Liaisons Coordinator,** **mailto:3GPPLiaison@etsi.org**

**Attachments:**

* [S4-210272](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210272.zip): CR26.118-0006: Operation Points for 8K VR 360º Video

# 1 Overall description

3GPP TSG SA WG4 (SA4) would like to thank VR-IF for the Reply Liaison Statement on the 8K VR 360º operation point and the VRIF Guidelines 2.3.

Your input was highly appreciated and helped to complete a CR for Rel-17 to add 8K VR 360º Video to the 3GPP VR Media Profiles in TS 26.118. Please find attached the agreed CR. We encourage you to fully align your guidelines with our specification for harmonized industry specifications.

In this CR, we agreed to support both SDR and HDR formats to align with our 4K profiles. HDR support is currently limited to the non-constant luminance BT.2100 PQ representation. We did not add support for the BT.2100 HLG transfer characteristics. We would like to know if VR-IF see any technical merit in supporting HDR/HLG for VR applications.

3GPP has started to document Typical traffic characteristics of media services on 3GPP networks for operator and third-party services. This includes predominantly expected bitrates, but may also add additional information such as QoS, encoding recommendations, etc. Currently, [TR 26.925](https://www.3gpp.org/ftp/Specs/archive/26_series/26.925/26925-g00.zip) documents “Typical streaming/broadcast 360º VR bitrates” in clause 5.2. In order to complete the work item, we would like to update the TR 26.925 with relevant bitrates and traffic characteristics for 8K VR 360º Video. Any input from VR-IF on this matter would be welcome.

We look forward to your response and wish to continue the exchange of information on VR services relevant for 5G. We expect to complete the work item by SA4#114-e, so any response prior to this meeting is highly appreciated.

# 2 Actions

**To VR-IF**

**ACTIONS:**

We kindly ask VR-IF to

* Provide any feedback on the potential need to support HLG for 8K VR 360º operation.
* Provide information on expected bitrates and possibly traffic characteristics for 8K VR 360º Video.

# 3 Dates of next TSG SA WG 4 meetings

3GPP SA4#113-e 6 – 14 April 2021, e-meeting

3GPP SA4#114-e 19 – 28 May 2021, e-meeting